BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

1ST AND FINAL BILL

Name of work: Improvements of Roads, Drains and Culverts at kodigehalli Village and surrounding area at kodigehalli Village in Ward No. 08.

Estimated Cost : Rs. 60.00 Lakhs

Job Code: 008-19-000039

Head of Account : P-3522

Name of Agency: Sri Gangulureddy. A, # 490/B, 12th C Cross, Vyalikaval, Malleshwaram, Bangalore 560003.

Work order No: BBMP/EE/BTP/WO/08/2020-21 Date: 11.05.2020.

Date of Recording: 30-09-2020

Sl. No.	Description of work	No	L	CH+B	B	D	Qty	Rate	Amount
1	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications								
		Cum							
	Qty as per Premeasurement Vide E- MB Page No. 01 is =						**162.36**	1100.00	**178596.00**
2	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications								
		Cum							
	Qty as per Premeasurement Vide E- MB Page No. 02 is =						**399.45**	250.00	**99863.00**
3	Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.465cum and fine aggregtes @ 0.58cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications.								
		Cum							
	Qty as per Premeasurement Vide E- MB Page No. 03 is =						**162.93**	5600.00	**912408.00**
4	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.								
	For Culverts	Cum							
	Mahalakshmi Pravision Store Road	2	5.10		0.45	0.60	2.75		
		2	3.70		0.45	0.60	2.00		
				Total Qty =			**4.75**		
				Limited to tender qty =			**4.43**	5830.00	**25827.00**

Assistant Engineer

Assistant Executive Engineer

Sl. No.	Description of work	No	L	CH+B	B	D	Qty	Rate	Amount
5	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications								
	Coping	Cum							
	Mahalakshmi Pravision Store Road	2	5.10		0.45	0.10	0.46		
		2	3.70		0.45	0.10	0.33		
	For Ramp	2	5.10		1.00	0.15	1.53		
		2	3.70		1.00	0.15	1.11		
		1	13.20		0.30	0.15	0.59		
	cross road	1	15.00		0.30	0.15	0.68		
		1	15.00		0.30	0.15	0.68		
		1	15.00		0.30	0.15	0.68		
		1	15.00		0.30	0.15	0.68		
	AK.Kumar house road	1	15.00		0.30	0.15	0.68		
		1	1.00		0.30	0.15	0.05		
		1	15.00		0.30	0.15	0.68		
		1	15.00		0.30	0.15	0.68		
		1	14.00		0.30	0.15	0.63		
		1	15.00		0.30	0.15	0.68		
	Temple Road	1	18.00		0.30	0.15	0.81		
		1	18.00		0.30	0.15	0.81		
				Total Qty =			**11.72**		
				Limited to tender qty =			**11.68**	5750.00	**67160.00**
6	Providing ruled pointing 20 mm deep to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications								
		Sqm							
	Mahalakshmi Pravision Store Road	2	5.10		0.45	0.90	9.18		
		2	3.70		0.45	0.90	6.66		
				Total Qty =			**15.84**		
				Limited to tender qty =			**14.76**	155.00	**2288.00**
7	Providing laying palin / reinforced cement concrete for side drains using M 20 nominal mix concrete with OPC at 300 kgs with 20 mm and down size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed well compacted for walls and bottom including cenmtering shuttering form work etc. complete as per approved drawing and design MORTH Specification No. 1500,1700,2200 Wall & Bottom thickness 15cm								
	Bottom Concrete	Cum							
	Kodigehalli Main to kote ram mandhir road,	2	31.00		0.90	0.15	8.37		
	Kote Rama Mandhira to Srinivasaiah House	1	30.00		0.90	0.15	4.05		
		1	30.00		0.90	0.15	4.05		
		1	30.00		0.90	0.15	4.05		
		1	30.00		0.90	0.15	4.05		
		1	30.00		0.90	0.15	4.05		
		1	24.00		0.90	0.15	3.24		
	Mahalakshmi Pravision Store Road	1	15.00		0.90	0.15	2.03		
		1	8.00		0.90	0.15	1.08		
	Side Wall								
	Kodigehalli Main to kote ram mandhir road,	2x2	31.00		0.15	0.60	11.16		

46.13

Assistant Engineer

Assistant Executive Engineer, Kodigehalli Sub Divsn., Yelahanka Zone, B.B.M.P.

Assistant Executive Engineer

Sl. No.	Description of work	No	L	CH+B	B	D	Qty	Rate	Amount
	Kote Rama Mandhira to Srinivasaiah House	2	30.00		0.15	0.60	5.40		
		2	30.00		0.15	0.60	5.40		
		2	30.00		0.15	0.60	5.40		
		2	30.00		0.15	0.60	5.40		
		2	30.00		0.15	0.60	5.40		
		2	24.00		0.15	0.60	4.32		
	Mahalakshmi Pravision Store Road	2	15.00		0.15	0.60	2.70		
		2	8.00		0.15	0.60	1.44		
				Total Qty =			**81.59**		
				Limited to tender qty =			**81.27**	7100.00	**577017.00**
8	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. - TMT bars Fe 500								
	For Culverts	Tonne							
	Qty as per Premeasurement Vide E- MB Page No. 04 is =						**4.88**	75250.00	**367220.00**
9	Providing precast slab of 250mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - Data rate								
		Sqm							
	Mahalakshmi Pravision Store Road	1	5.10		1.50		7.65		
		1	3.70		1.50		5.55		
		1	2.00		1.50		3.00		
				Total Qty =			**16.20**		
				Limited to tender qty =			**15.12**	5430.00	**82102.00**
10	Providing precast slab of 100mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - Data rate								
		Sqmt							
	Kodigehalli Main to kote ram mandhir road,	2	31.00		0.90		55.80		
	Kote Rama Mandhira to Srinivasaiah House	1	30.00		0.90		27.00		
		1	30.00		0.90		27.00		
		1	30.00		0.90		27.00		
		1	30.00		0.90		27.00		
		1	30.00		0.90		27.00		
		1	24.00		0.90		21.60		
	Mahalakshmi Pravision Store Road	1	15.00		0.90		13.50		
		1	8.00		0.90		7.20		
	Panchayath Office Backside drain	1	30.00		0.90		27.00		
		1	15.00		0.90		13.50		
		1	25.00		0.90		22.50		
		1	30.00		0.90		27.00		
		1	25.00		0.90		22.50		
		1	28.00		0.90		25.20		
		1	30.00		0.90		27.00		

Assistant Engineer

Assistant Executive Engineer

Sl. No.	Description of work	No	L	CH+B	B	D	Qty	Rate	Amount
		1	15.00		0.90		13.50		
	Passage	1	30.00		0.90		27.00		
		1	15.00		0.90		13.50		
		1	25.00		0.90		22.50		
		1	28.00		0.90		25.20		
	Passage	1	30.00		0.90		27.00		
		1	25.00		0.90		22.50		
		1	25.00		0.90		22.50		
		1	35.00		0.90		31.50		
		1	30.00		0.90		27.00		
	Passage	1	30.00		0.90		27.00		
		1	25.00		0.90		22.50		
		1	30.00		0.90		27.00		
		1	30.00		0.90		27.00		
		1	15.00		0.90		13.50		
	Passage	1	25.00		0.90		22.50		
		1	15.00		0.90		13.50		
		1	8.50		0.90		7.65	392.85	
				Total Qty =			790.65		
				Limited to tender qty =			790.20	2340.00	1849068.00
11	Construction of un-reinforced plain cement concrete pavement, using grade concrete M30 over a prepared base with OPC course aggregate at 0.69 cum fine aggregates at 0.46 cum course and fine aggregtes confirming to IS : 383-2016, with superplastisiser @3lts confirming to IS9103-1999 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. (with OPC 320Kg per cum GGBS 40 Kg/cum confirming to IS: 12089 course aggregate @ 0.69cum and fine aggregate @ 0.46cum								
		Cum							
	Kodigehalli village kate sri ram mandhir road,	1	13.20	10.30	10.30	10.30	0.15	20.39	
	cross road	1	15.00	4.00	4.00	4.00	0.15	9.00	
		1	15.00	4.00	4.00	4.00	0.15	9.00	
		1	15.00	3.50	3.50	3.50	0.15	7.88	
		1	5.50	3.50	3.50	3.50	0.15	2.89	
	AK.Kumar house road	1	9.00	3.50	3.50	3.50	0.15	4.73	
		1	15.00	3.00	3.00	3.00	0.15	6.75	
		1	2.00	3.00	3.00	3.00	0.15	0.90	
		1	13.00	4.00	4.00	4.00	0.15	7.80	
		1	15.00	3.50	3.50	3.50	0.15	7.88	
		1	5.00	3.50	3.50	3.50	0.15	2.63	
	Temple Road	1	15.00	4.50	4.50	4.50	0.15	10.13	
		1	15.00	4.50	3.50	3.50	0.15	7.88	
		1	15.00	3.50	3.80	3.60	0.15	8.10	
		1	15.00	3.80	3.90	3.85	0.15	8.66	
		1	12.50	3.90	4.00	3.95	0.15	7.41	
				Total Qty =			122.00		
				Limited to tender qty =			121.77	5320.00	647816.00
12	Removing and refixing stone slabs of drains and pointing in CM (1:3)								
		Sqm							
	Qty as per Premeasurement Vide E- MB Page No. 05 is =						621.00	200.00	124200.00

Assistant Engineer

Assistant Executive Engineer, Kodigehalli Sub Divisi... Bhanka Zone, B.B.M.P., Bangalore

Assistant Executive Engineer

Sl. No.	Description of work	No	L	CH+B	B	D	Qty	Rate	Amount
	Qty as per Premeasurement Vide E- MB Page No. 05 is = Repeated						621.00	200.00	124200.00
13	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete								
		Sqm							
	Panchayath Office Backside drain	1	8.50		1.35		11.48		
		1	13.20		1.35		17.82		
		1	12.50		1.35		16.88		
		1	14.30		1.35		19.31		
				Total Qty =			65.48		
				Limited to tender qty =			62.10	1000.00	62100.00
14	Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications								
		Sqm							
	Panchayath Office Backside drain								
	Panchayath Office Backside drain	2	30.00			0.40	24.00		
		2	15.00			0.40	12.00		
		2	25.00			0.40	20.00		
		2	30.00			0.40	24.00		
		2	25.00			0.40	20.00		
		2	28.00			0.40	22.40		
		2	30.00			0.40	24.00		
		2	15.00			0.40	12.00		
	Passage	2	30.00			0.40	24.00		
		2	15.00			0.40	12.00		
		2	25.00			0.40	20.00		
		2	28.00			0.40	22.40		
	Passage	2	30.00			0.40	24.00		
		2	25.00			0.40	20.00		
		2	25.00			0.40	20.00		
		2	35.00			0.40	28.00		
		2	30.00			0.40	24.00		
	Passage	2	30.00			0.40	24.00		
		2	25.00			0.40	20.00		
		2	30.00			0.40	24.00		
		2	30.00			0.40	24.00		
		2	15.00			0.40	12.00		
	Passage	2	25.00			0.40	20.00		
		2	15.00			0.40	12.00		
		2	10.00			0.40	8.00		
				Total Qty =			496.80		
				Limited to tender qty =			496.00	1200.00	595200.00
	Sub Total								5590865.00
	For 12% Applicable GST								670904.00
								Total Rs	6261769.00

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Improvements of Roads, Drains and Culverts at kodigehalli Village and surrounding area at kodigehalli Village in Ward No. 08.

Estimated Cost : Rs. 60.00 Lakhs

Job Code: 008-19-000039

Head of Account : P-3522

Name of Agency: Sri Gangulureddy. A, # 490/B, 12th C Cross, Vyalikaval, Malleshwaram, Bangalore 560003.

Work order No: BBMP/EE/BTP/WO/08/2020-21 Date: 11.05.2020.

Date of Recording: 13-08-2020

Sl. No.	Description of work	No	L	CH+B	B	D	Qty
1	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications						
		Cum					
	Kodigehalli village kate sri ram mandhir road,	1	13.20	10.00	10.00	10.00	0.20	26.40
	cross road	1	15.00	4.00	4.00	4.00	0.20	12.00
		1	15.00	4.00	4.00	4.00	0.20	12.00
		1	15.00	3.50	3.50	3.50	0.20	10.50
		1	5.50	3.50	3.50	3.50	0.20	3.85
	AK.Kumar house road	1	9.00	3.50	3.50	3.50	0.20	6.30
		1	15.00	3.00	3.00	3.00	0.20	9.00
		1	2.00	3.00	3.00	3.00	0.20	1.20
		1	13.00	4.00	4.00	4.00	0.20	10.40
		1	15.00	3.50	3.50	3.50	0.20	10.50
		1	5.00	3.50	3.50	3.50	0.20	3.50
	Temple Road	1	15.00	4.50	4.50	4.50	0.20	13.50
		1	15.00	4.50	3.50	3.50	0.20	10.50
		1	15.00	3.50	3.80	3.60	0.20	10.80
		1	15.00	3.80	3.90	3.85	0.20	11.55
		1	15.00	3.90	4.00	3.95	0.20	11.85
		1	2.00	4.00	3.75	3.20	0.20	1.28
					Total Qty =			165.13
					Qty Limited to =			162.36

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Sl. No.	Description of work	No	L	CH+B		B	D	Qty
	Measurements Recarded on : 16-08-2020							
2	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications							
		Cum						
	Kodigehalli Main to kote ram mandhir road,	2	31.00			1.00	1.00	31.00
	Kote Rama Mandhira to Srinivasaiah House	1	30.00			1.00	1.00	30.00
		1	30.00			1.00	1.00	30.00
		1	30.00			1.00	1.00	30.00
		1	30.00			1.00	1.00	30.00
		1	30.00			1.00	1.00	30.00
		1	24.00			1.00	1.00	24.00
	Mahalakshmi Pravision Store Road	1	15.00			1.00	1.00	15.00
		1	8.00			1.00	1.00	8.00
	Culvert							
	Mahalakshmi Pravision Store Road	1	5.10			2.00	1.20	12.24
		1	3.70			2.00	1.20	8.88
	Kodigehalli village kate sri ram mandhir road,	1	13.20	10.00	10.00	10.00	0.15	19.80
	cross road	1	15.00	4.00	4.00	4.00	0.15	9.00
		1	15.00	4.00	4.00	4.00	0.15	9.00
		1	15.00	3.50	3.50	3.50	0.15	7.88
		1	5.50	3.50	3.50	3.50	0.15	2.89
	AK.Kumar house road	1	9.00	3.50	3.50	3.50	0.15	4.73
		1	15.00	3.00	3.00	3.00	0.15	6.75
		1	2.00	3.00	3.00	3.00	0.15	0.90
		1	13.00	4.00	4.00	4.00	0.15	7.80
		1	15.00	3.50	3.50	3.50	0.15	7.88
		1	5.00	3.50	3.50	3.50	0.15	2.63
	Temple Road	1	15.00	4.50	4.50	4.50	0.15	10.13
		1	15.00	4.50	3.50	3.50	0.15	7.88
		1	15.00	3.50	3.80	3.60	0.15	8.10
		1	15.00	3.80	3.90	3.85	0.15	8.66
		1	15.00	3.90	4.00	3.95	0.15	8.89
		1	2.00	4.00	3.75	3.20	0.15	0.96
	Deshilting of drains							
	Panchayath Office Backside drain	2	30.00			0.60	0.45	8.10
		2	20.00			0.60	0.45	5.40
		2	30.00			0.60	0.45	8.10
		2	15.00			0.60	0.45	4.05
		2	10.00			0.60	0.45	2.70
				Total Qty =				**401.32**
				Qty Limited to =				**399.45**

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Sl. No.	Description of work	No	L	CH+B		B	D	Qty
	Measurements Recarded on : 18-08-2020							
3	Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.465cum and fine aggregtes @ 0.58cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications.							
	For Drain	Cum						
	Kodigehalli Main to kote ram mandhir road,	2	31.00			1.00	0.15	4.65
	Kote Rama Mandhira to Srinivasaiah House	1	30.00			1.00	0.15	4.50
		1	30.00			1.00	0.15	4.50
		1	30.00			1.00	0.15	4.50
		1	30.00			1.00	0.15	4.50
		1	30.00			1.00	0.15	4.50
		1	24.00			1.00	0.15	3.60
	Mahalakshmi Pravision Store Road	1	15.00			1.00	0.15	2.25
		1	8.00			1.00	0.15	1.20
	Culvert							
	Mahalakshmi Pravision Store Road	1	5.10			2.00	0.15	1.53
		1	3.70			2.00	0.15	1.11
	Kodigehalli village kate sri ram mandhir road,	1	13.20	10.30	10.30	10.30	0.15	20.39
	cross road	1	15.00	4.00	4.00	4.00	0.15	9.00
		1	15.00	4.00	4.00	4.00	0.15	9.00
		1	15.00	3.50	3.50	3.50	0.15	7.88
		1	5.50	3.50	3.50	3.50	0.15	2.89
	AK.Kumar house road	1	9.00	3.50	3.50	3.50	0.15	4.73
		1	15.00	3.00	3.00	3.00	0.15	6.75
		1	2.00	3.00	3.00	3.00	0.15	0.90
		1	13.00	4.00	4.00	4.00	0.15	7.80
		1	15.00	3.50	3.50	3.50	0.15	7.88
		1	5.00	3.50	3.50	3.50	0.15	2.63
	Temple Road	1	15.00	4.50	4.50	4.50	0.15	10.13
		1	15.00	4.50	3.50	3.50	0.15	7.88
		1	15.00	3.50	3.80	3.60	0.15	8.10
		1	15.00	3.80	3.90	3.85	0.15	8.66
		1	15.00	3.90	4.00	3.95	0.15	8.89
		1	6.00	4.00	3.75	3.20	0.15	2.88
				Total Qty =				**163.20**
				Qty Limited to =				**162.93**

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

Assistant Engineer
Ward No. 08

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer.
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

Sl. No.	Description of work	No	L	CH+B	B	D	y
	Measurements Recarded on : 21-08-2020						
8	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. - TMT bars Fe 500						
		Tonne					
		Nos	L	M	Kg/m	Kgs	
	10 mm	282	2.20	620.40	0.62	384.65	
	8 mm	16	31.00	496.00	0.39	193.44	
	10 mm	282	2.20	620.40	0.62	384.65	
	8 mm	16	31.00	496.00	0.39	193.44	
	10 mm	1582	2.20	3480.40	0.62	2157.85	
	8 mm	16	174.00	2784.00	0.39	1085.76	
	10 mm	248	2.20	545.60	0.62	338.27	
	8 mm	16	23.00	368.00	0.39	143.52	
						4881.58	
		Total Qty =				**4.88**	
		Qty Limited to =				**4.88**	

Assistant Engineer
Ward No. 08

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Kodigehalli Sub Division

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Kodigehalli Sub Divisi
Yelahanka Zo e, B.B.M.P.,
Bangalore.

Sl. No.	Description of work	No	L	CH+B	B	D	Qty
	Measurements Recarded on : 21-08-2020						
12	Removing and refixing stone slabs of drains and pointing in CM (1:3)						
		Sqm					
	Panchayath Office Backside drain	2	30.00		1.35		81.00
		2	30.00		1.35		81.00
		2	30.00		1.35		81.00
		2	30.00		1.35		81.00
		2	31.20		1.35		84.24
		2	30.00		1.35		81.00
		2	30.00		1.35		81.00
		2	20.50		1.35		55.35
				Total Qty =			625.59
				Qty Limited to =			621.00

Assistant Engineer
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nka Zone, B.B.M.P.,
Bangalore.